



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/760,180

01/21/2004

Kia Silverbrook

SMA01US

2057

24011 7590 09/16/2008
SILVERBROOK RESEARCH PTY LTD
393 DARLING STREET
BALMAIN, 2041
AUSTRALIA

EXAMINER

GARCIA JR, RENE

ART UNIT

PAPER NUMBER

2853

MAIL DATE

DELIVERY MODE

09/16/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/760,180	Applicant(s) SILVERBROOK ET AL.	
	Examiner RENE GARCIA JR	Art Unit 2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 4-27 is/are pending in the application.
- 4a) Of the above claim(s) 4,5,8-18,26 and 27 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,6,7 and 19-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 05/21/2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent 7,111,935; --any patent granted on Application Number-- 10/760,213; 10/760,219; 10/760,252; 11/503,083; 10/760,237; and 10/760,220 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Silverbrook et al. (US 6,612,240).

Silverbrook et al. discloses the following claim limitations:

*regarding claim 1, digital photofinishing system comprising: (fig. 5, 6; col. 1, lines 6-11)

*roll of print media/**web**/ (col. 1, lines 39, 40, 50-53; ABS; fig 5 – web not shown but obvious that the web is a continuous roll of media and known in art for web to be a roll of media)

*printer/**10**/ (fig. 1; col. 3, lines 14-21) comprising two confronting (fig. 11; col. 4, lines 18-25; col. 4, line 64 – col. 5, line 25; col. 5, lines 45-52), spaced-apart print head assemblies/**54**/

*means for feeding/**roller assembly, 74**/ print media to the printer from the roll of the print media/**web**/ (fig. 9, 10; col. 4, lines 38-55; col. 6, lines 60-65; col. 7, lines 15-29)

*digital processor arranged to receive digitised data representative of a photographic image and to process the data in a manner to generate a printer drive signal representative of the photographic image (col. 7, lines 30-col. 8, line 4; col. 3, lines 14-20; col. 5, lines 12-40; while not specific to a processor being present, it is well known in the art for printers to provide electronics to accept incoming data via a source, such as PC, and generate necessary print data specific to print the image; furthermore the presence of print engine controllers/**126**/ and PCB's/**108,110**/ indicate presence of such capabilities; wherein the claim recitation does not require any specifics not known to be utilized in prior art, therefore reasonably to be present in Silverbrook et al. US 6,612,240)

*wherein the printer is arranged to process the drive signal and effect page-width printing of the photographic image on the print media as it is fed to and through the printer from the roll (col. 1, lines 54-56)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2853

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 6, 7, 19-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 2002/0093569) [herein '569] in view of Silverbrook et al. (US 6,612,240) [herein '240].

Silverbrook et al. '569 discloses the following claim limitations:

*regarding claim 1, digital photofinishing system comprising: (fig. 1, 11-13; ABS; ¶0001, 0007, 0009, 0002)

*roll of print media/**504/** (fig. 1, 5, 13; ¶0035, 0036)

*printer/**printhead, 516; printhead sub-assembly, 508/** (fig. 1, 2, 3, 5; ¶0038)

*means for feeding/**stepper motor, 530; drive roller, 534; roller assembly, 536; gear train, 538/** (fig. 2, 5; ¶0040) print media to the printer from the roll of the print media

*digital processor/**camera print engine control chip, 721/** (fig. 4, 5, 6; ¶0047, 0051) arranged to receive digitised data representative of a photographic image and to process the data in a manner to generate a printer drive signal representative of the photographic image (known in the art for printers to provide electronics to accept incoming data via a source, such as PC, and generate necessary print data specific to print the image; furthermore the presence of print engine control chip/721/ indicates presence of such capabilities)

Art Unit: 2853

*wherein the printer is arranged to process the drive signal and effect page-width printing of the photographic image on the print media as it is fed to and through the printer from the roll (¶0015)

*regarding claim 6, cartridge/**504**/ removably in juxtaposition to the printer, the cartridge housing: (¶0035; fig. 1, 12, 13)

*the roll of print media/**504**/ to be fed to the printer and incorporating means for coupling with a print media feed drive mechanism/**roller assembly, 536**/ (fig. 2, 5; ¶0040)

*at least one refillable fluid cartridge/reservoirs, **548**/ (fig. 5; ¶0041, 0038) containing printing ink to be delivered to the printer

*regarding claim 7, roll of print media/**504**/ is removably mounted to a tubular core of the cartridge and wherein the at least one fluid cartridge/**548**/ is removably located within the tubular core (fig. 5; ¶0038, 0041)

*regarding claim 19, processor/**721**/ and the printer/**516, 508**/ are mounted to a support structure/**print engine, 500; print engine assembly, 502**/ and wherein a cartridge/**504**/ containing a replaceable said roll of the print media is removable mounted to the support structure (fig. 1, 2, 3; ¶0035)

*regarding claim 20, support structure includes a compartment and the cartridge is removably located in the compartment (fig. 12, 13; ¶0035)

*regarding claim 21, print media feed means/**roller assembly, 536/** (fig. 2, 5; ¶0040) are located in the cartridge/**504/** and drive means/**stepper motor, 530; drive roller, 534; roller assembly, 536; gear train, 538/** (fig. 2, 5; ¶0040) are provided on the support structure/**500, 502/** (fig. 1, 2, 3; ¶0038, 0039, 0040) and are arranged to couple with the feed means to effect feeding of the print media through the printer when the cartridge is mounted to the support structure

*regarding claim 22, paper feed drive mechanism is mounted to the compartment and is arranged to engage said roll of the print media (fig. 1, 2, 3; ¶0040)

*regarding claim 23, door/**engageable portion, 540/** is provided in a wall portion of the primary cartridge and wherein the door is arranged to be opened to enable the paper feed drive mechanism to engage the roll of print media (fig. 2; ¶0040)

*regarding claim 24, paper feed drive mechanism comprises a pivotal carrier, a first drive motor arranged to impart pivotal drive to the carrier, a primary drive roller mounted to the carrier and arranged to engage the roll of print media when the door in the primary cartridge is open, and a second drive motor arranged to impart rotary drive to the primary roller (¶0040)

*regarding claim 25, print media feed means include a drive roller and a pinch roller, and wherein the drive means comprises a third drive motor which is mounted to the support structure (fig. 1, 2, 3,4, 10; ¶0040)

Silverbrook et al. '569 does not disclose the following claim limitations:

*regarding claim 1, printer comprising two confronting, spaced-apart print head assemblies

Silverbrook et al. '240 teaches the following:

*regarding claim 1, printer comprising two confronting, spaced-apart print head assemblies (fig. 9, 11; col. 4, lines 18-25; col. 4, line 65 – col. 5, line 7; col. 5, lines 12-51; wherein '240 teaches a page-width printhead structure separate, see figure 9 with relation to print engine/56/; '569 teaches printhead sub-assembly/508/, see figures 2, 3 and 5; printhead structure would therefore have been obvious to adjust structure of one with the other to achieve additional capabilities)

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize a printer comprising two confronting, spaced-apart print head assemblies as taught by Silverbrook et al. '240 into Silverbrook et al. '569 for the purpose of providing two-sided printing capability to printing system.

Response to Arguments

6. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. Silverbrook et al. (US 2002/0093569) in view of Silverbrook et al. (US 6,612,240) , specifically '240 teaches the use of opposed print head structures to provide duplexed/two-sided printing, to aide in print performance.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Silverbrook et al. (US 6,454,378; 6,447,113) both teach the use of opposed printhead structures in different overall printer apparatus to achieve duplex/two-sided printing.

INTENTIONALLY LEFT BLANK

Communication with the USPTO

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RENE GARCIA JR whose telephone number is (571)272-5980. The examiner can normally be reached on M-F 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. G./
Examiner, Art Unit 2853

/STEPHEN D. MEIER/
Supervisory Patent Examiner, Art Unit 2853